




POLYOLEFIN PRODUCTION

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A metallocene catalyst component for use in preparing polyolefins having a monomer length of up to C10, which component has the general formula: $R''(Cp'R_1R_2R_3)(Cp'R_1'R_2')MQ_2$ wherein Cp is a substituted or unsubstituted cyclopentadienyl ring; Cp' is a substituted fluorenyl ring; R'' is a structural bridge imparting stereorigidity to the component; R1 is optionally a substituent on the cyclopentadienyl ring which is distal to the bridge, which distal substituent comprises a bulky group of the formula XR^*3 in which X is chosen from Group IVA, and each R* is the same or different and chosen from hydrogen or hydrocarbonyl of from 1 to 20 carbon atoms, R2 is optionally a substituent on the cyclopentadienyl ring which is proximal to the bridge and positioned non-vicinal to the distal substituent and is of the formula $YR\#3$ in which Y is chosen from group IVA, and each R# is the same or different and chosen from hydrogen or hydrocarbonyl of 1 to 7 carbon atoms, R3 is optionally a substituent on the cyclopentadienyl ring which is proximal to the bridge and is a hydrogen atom or is of the formula $ZR\text{ DOLLAR }3$, in which Z is chosen from group IVA, and each R DOLLAR is the same or different and chosen from hydrogen or hydrocarbonyl of 1 to 7 carbon atoms, R1' and R2' are each independently substituent groups on the fluorenyl ring, one of which is a group of the formula $AR'''3$, in which A is chosen from Group IVA, and each R''' is independently hydrogen or a hydrocarbonyl having 1 to 20 carbon atoms and the other is hydrogen or a second group of the formula $AR'''3$; M is a Group IVB transition metal or vanadium; and each Q is hydrocarbonyl having 1 to 20 carbon atoms or is a halogen.

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